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# Improving food security – supporting sustainable production, access to resources, and livelihoods

Knowledge Generation and Sharing for Development and  
Policy Support

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north  
south

## CDE's mission:

To contribute to sustainable development in countries of the North, South, and East, through:

- research partnerships
- education and training
- development of concepts and tools
- raising awareness,
- policy advice.

# Food Security in the context of growing global challenges

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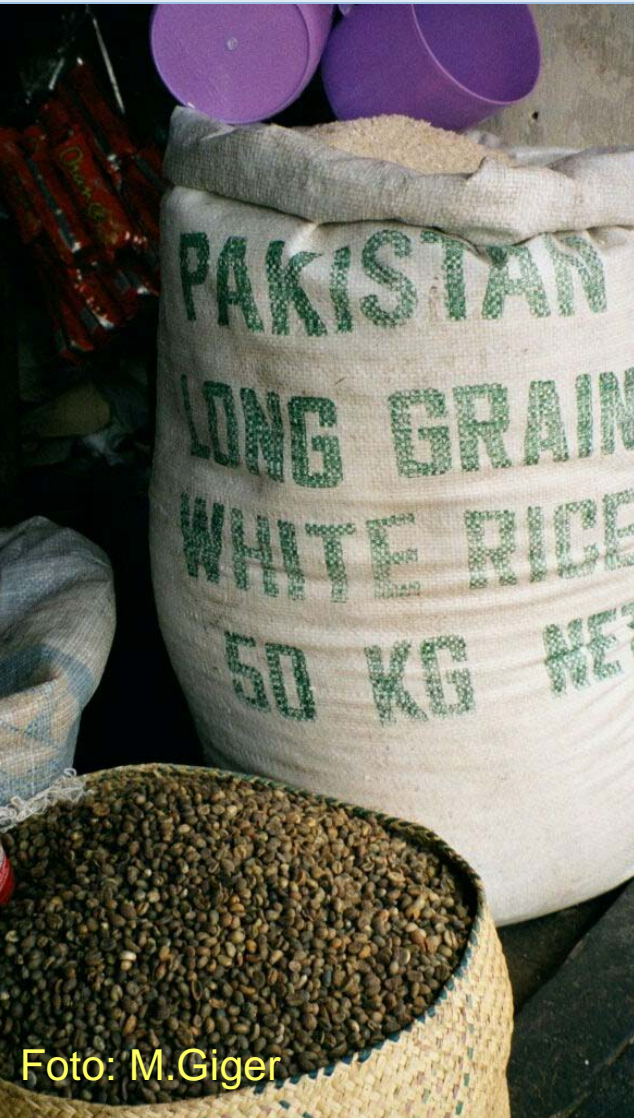
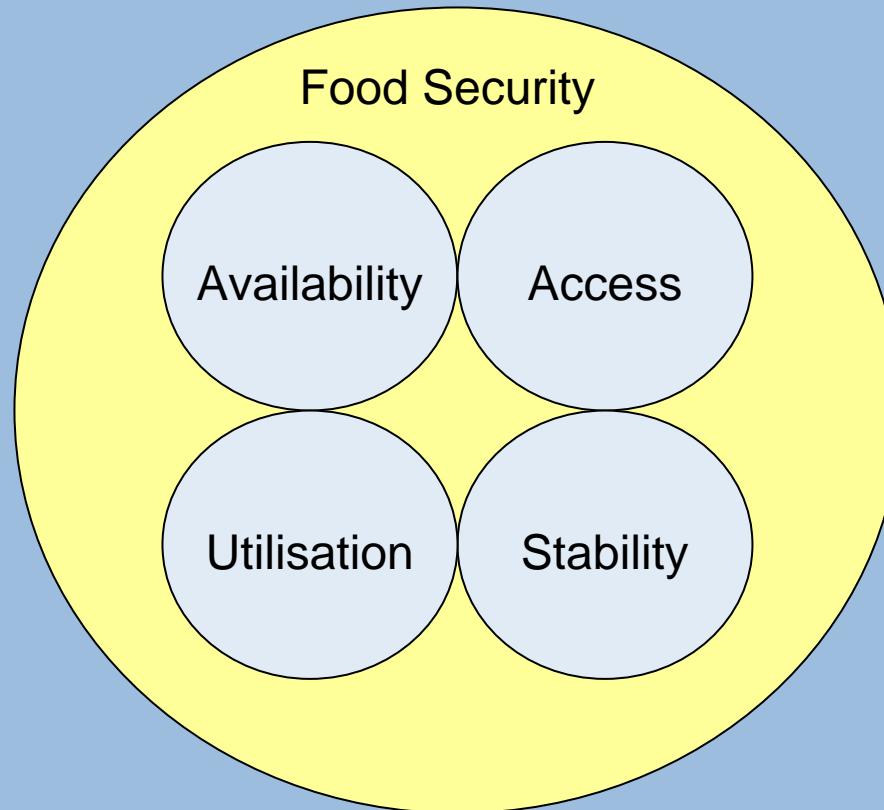


Foto: M.Giger



Foto: M.Giger

# Food Security has different dimensions, is a complex issue, and can be addressed in multiple ways





# Research on food insecurity and poverty in Lao PDR

## Key questions:

- Where are food-insecure people living?
- What factors are influencing food insecurity?
- How should interventions be prioritised?

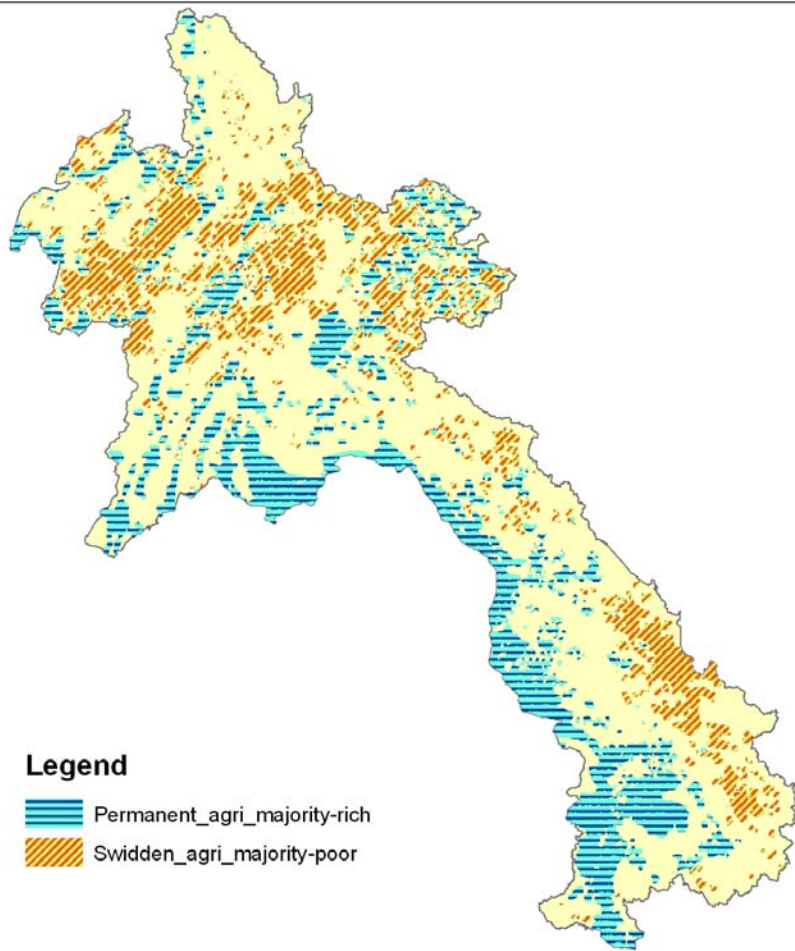
**Detailed and spatially explicit knowledge to address food security is often lacking – preventing strategic priority setting and effective measures**

# Typology of agricultural intensification and poverty alleviation: mainstream thinking and crucial exceptions

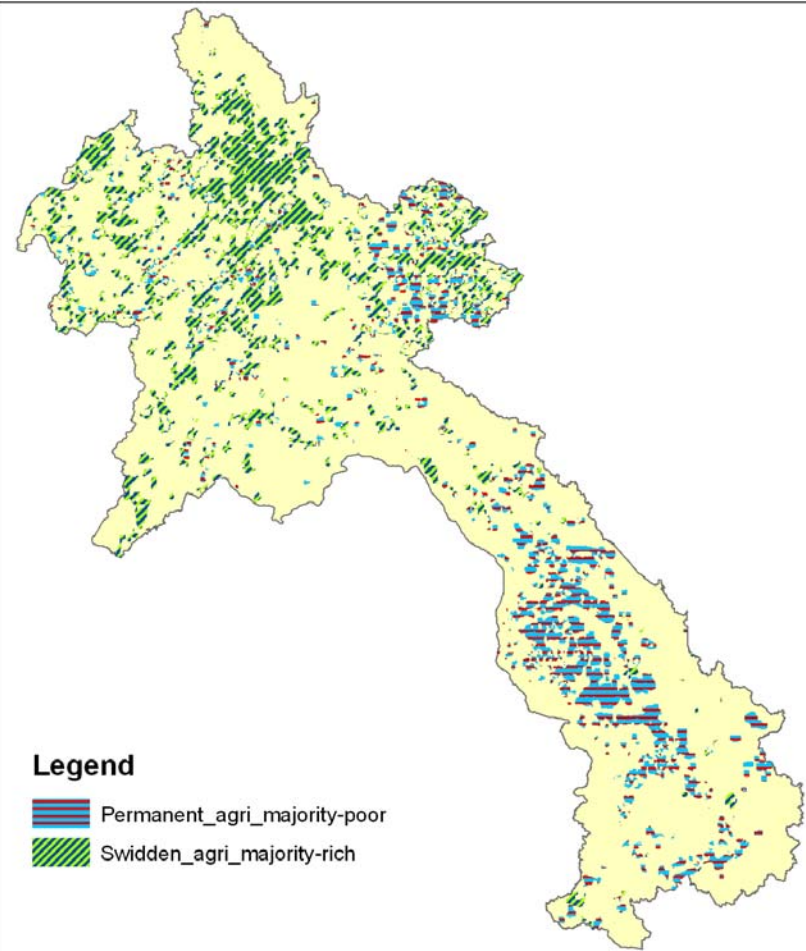
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Source: Peter Messerli, CDE



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# Areas of high incidence of food insecurity can be found both in favoured and in less-favoured areas

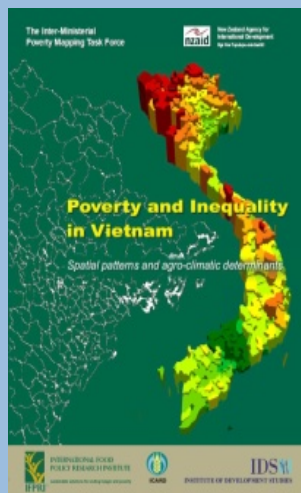
- High agricultural production in permanent agricultural systems is not associated with low incidence of poverty in all cases.
- Access to natural resources can reduce poverty (and food insecurity) in less-favoured areas with swidden agriculture and is an important asset for livelihoods.



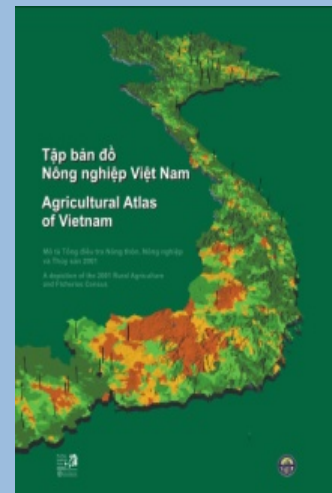
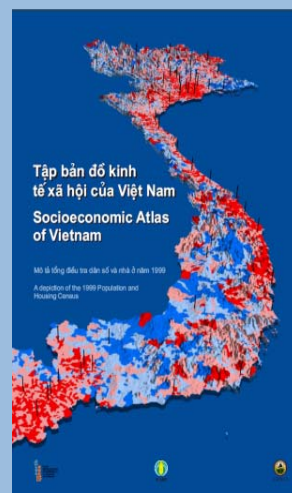
# The demand for spatially explicit data from donors and policymakers is high

“Maps on poverty and inequality”  
“Socio-economic atlases”

Minot *et al.*, 2006



Epprecht & Robinson, 2007

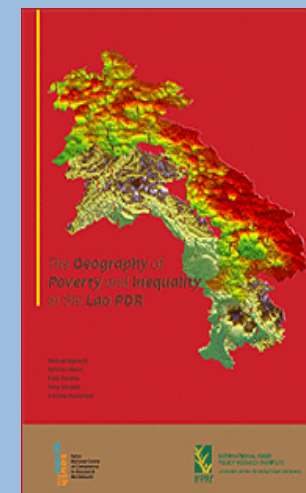


Epprecht & Heinimann, 2006



Messerli *et al.*, 2008

Epprecht *et al.*, 2008



# Why spatially explicit socio-economic information?

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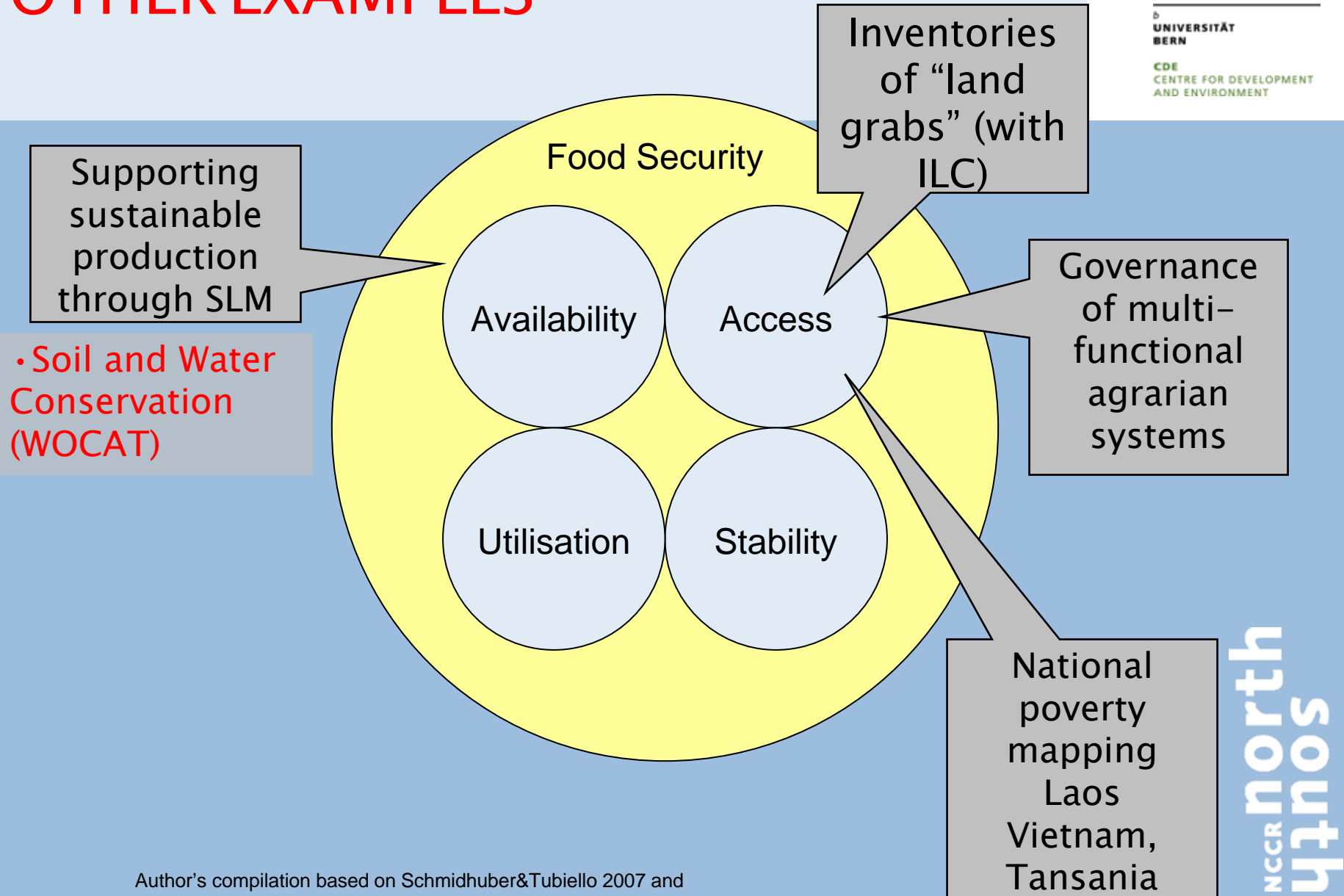
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- > Additional dimension delivers insights not evident from statistical data
- > Decision support tool for evidence-based planning at national and sub-national levels
- > Integrative perspective on food security within the overall goals of poverty alleviation and sustainable development

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## OTHER EXAMPLES







**Sustainable Land Management is a crucial challenge for any sustainable food system**



More information on WOCAT in parallel session GTZ/SDC today

WORLD

OVERVIEW OF

**Accessible database 2008/9:**

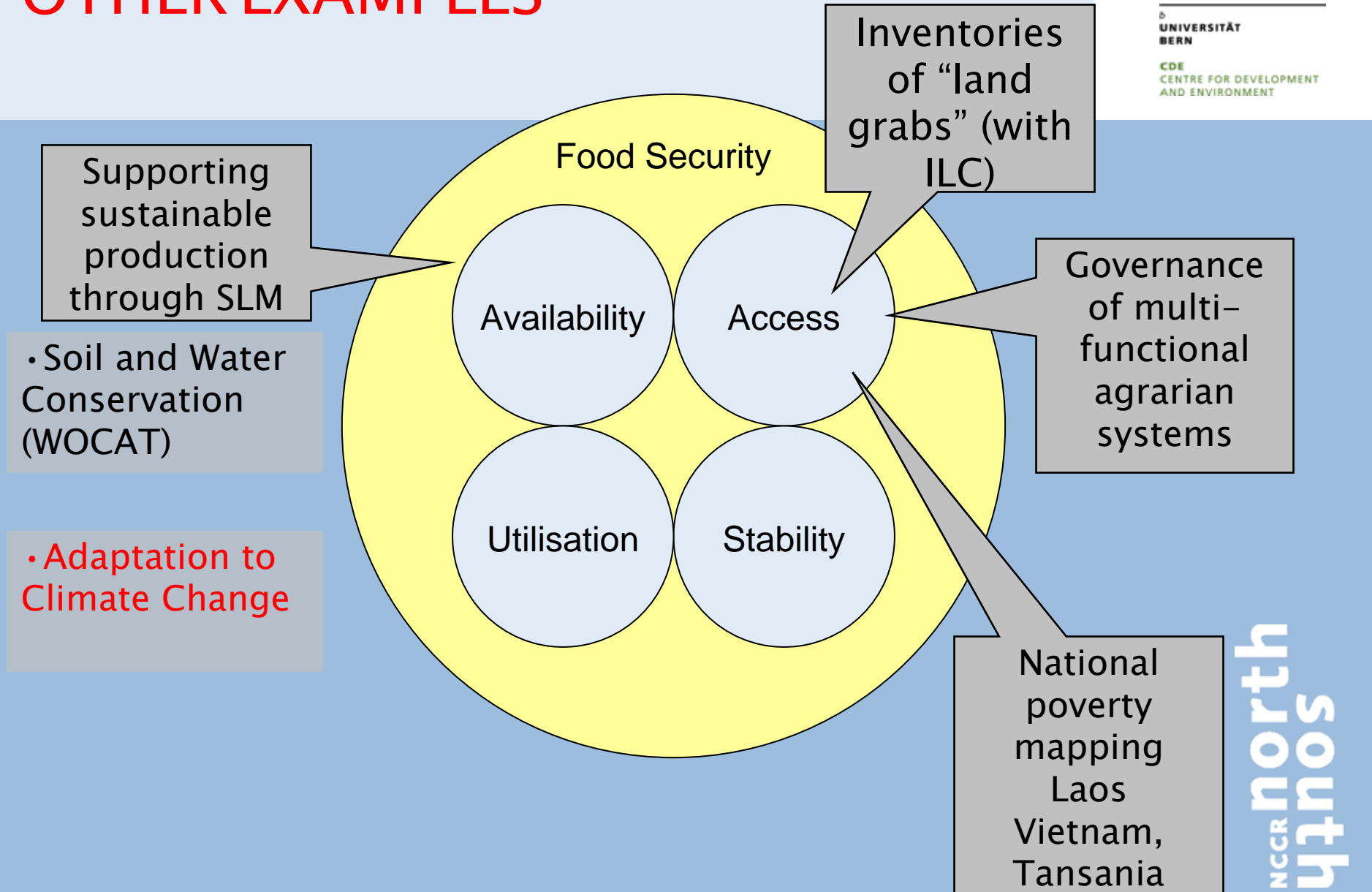
**51 countries with case studies on**

➤ **241 Technologies**

➤ **137 Approaches**

**WOCAT – Knowledge management support for SLM**

## OTHER EXAMPLES



Thank you for your attention!